

## MAGNETIC RESONANCE IMAGING APPARATUS

## ABSTRACT OF THE DISCLOSURE

For the purpose of enabling parallel imaging even when a navigator echo is  
5 used to phase-correct an imaging echo, the present invention involves: exciting  
spins within a subject to acquire an imaging echo generated by the excited spins  
along with a navigator echo, with a reduced field-of-view via a plurality of  
receiver systems (802); conducting phase correction on the imaging echo based  
on the navigator echo (804); producing an intermediate image based on the  
10 phase-corrected imaging echo from each of the plurality of receiver systems  
(806); generating a sensitivity matrix for the plurality of receiver systems (808);  
correcting the phase of matrix data in the sensitivity matrix (810); and producing  
an image with a full field-of-view based on the intermediate image and the  
phase-corrected sensitivity matrix (812).